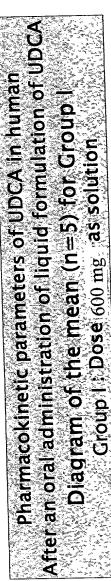
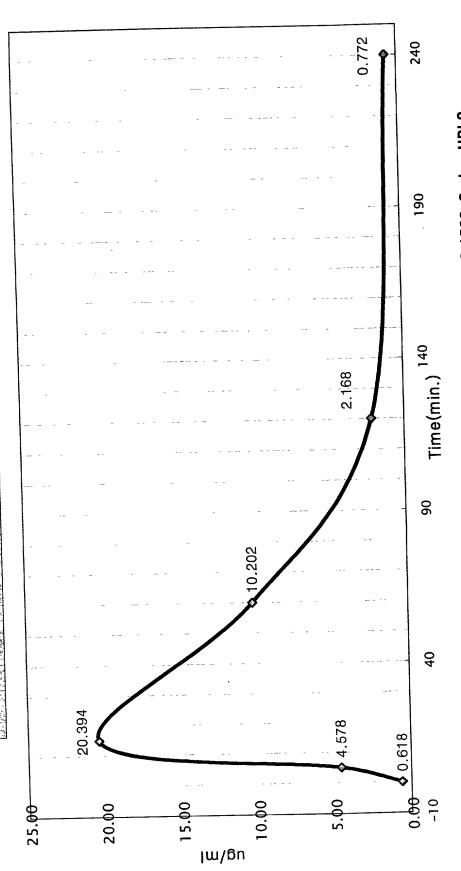


Figure. 3

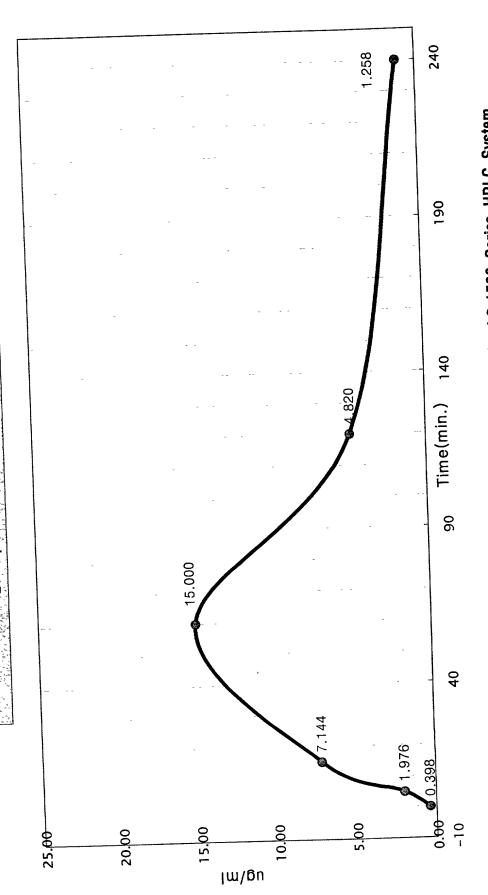




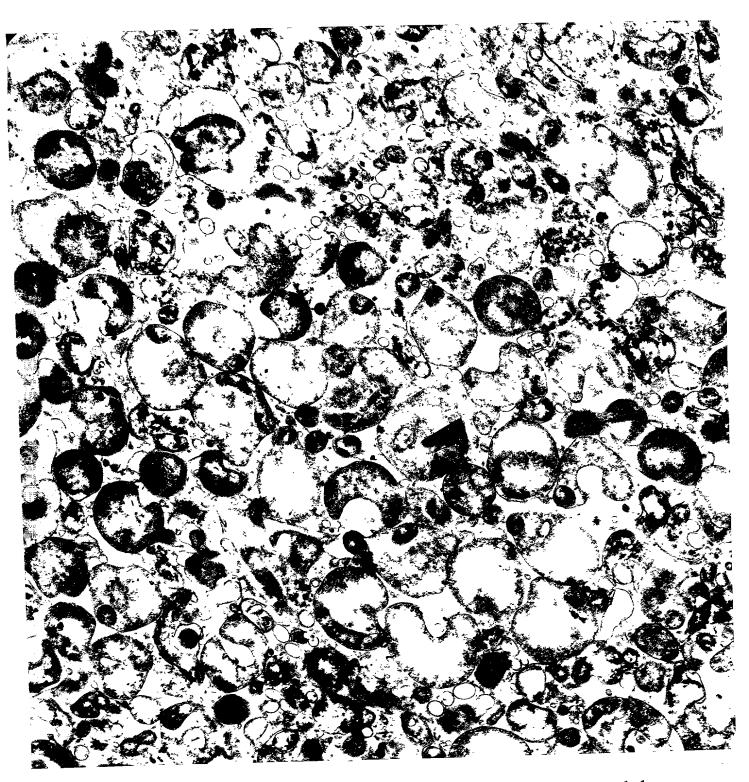
System of Jasco equiped with 3 α -HSD(3 α -hydroxysteroide dehydrogenase) column * Each bile acid was detected with standard procedure by LC-1500 Series HPLC

Figure. 4

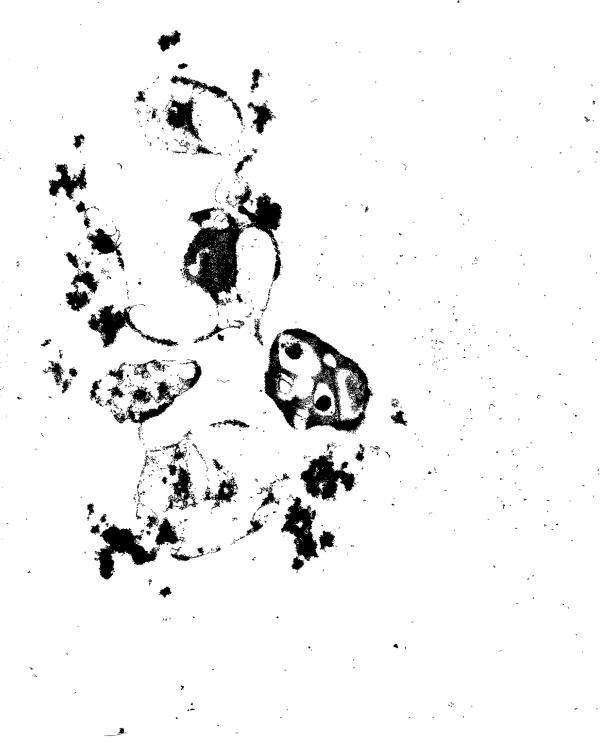




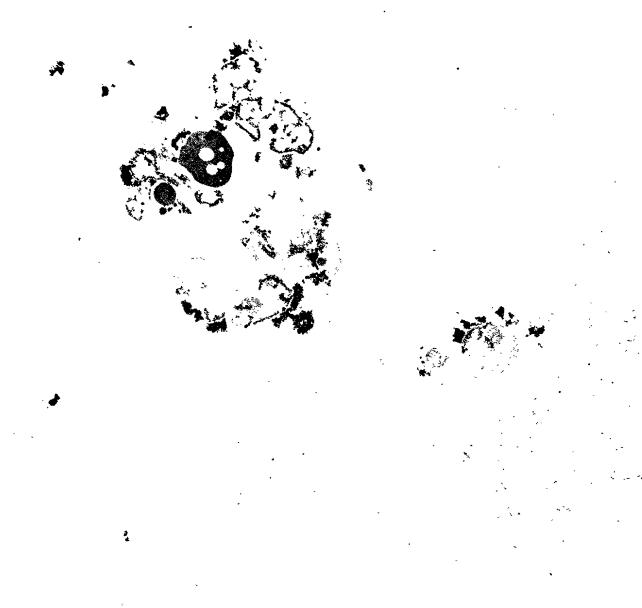
Each bile acid was detected with standard procedure by LC-1500 Series HPLC System of JASCO equiped with $3\,\alpha$ -HSD($3\,\alpha$ - hydroxysteroid dehydrogenase) column *



H. pylori cultured from Columbia medium pictured by Transmission Electron Microscope

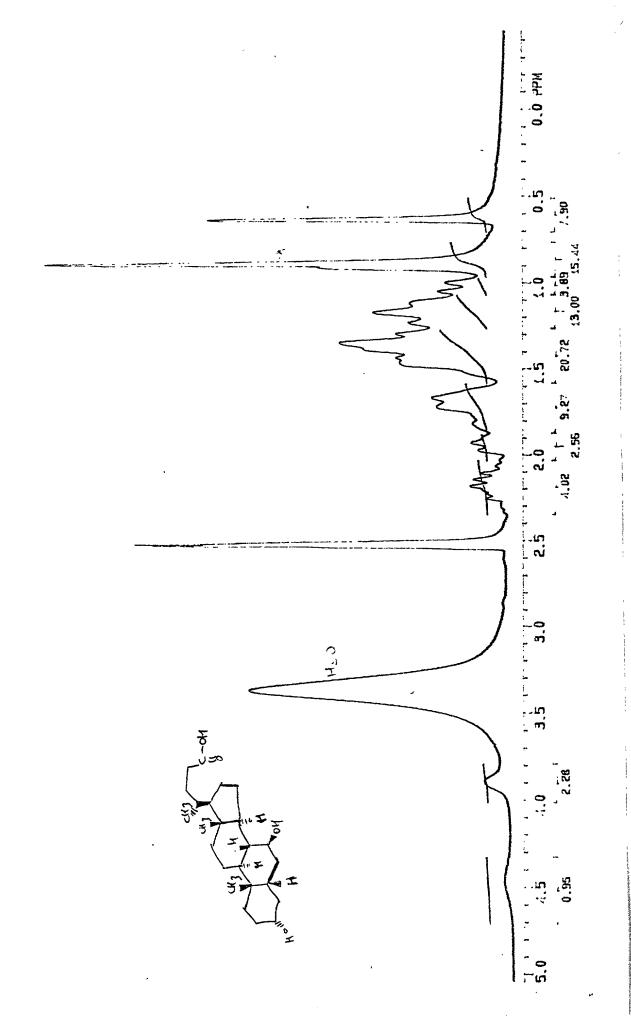


48hrs, after H. pylori treated with UDCA & bismuth citrate pictured by Transmission Electron Microscope

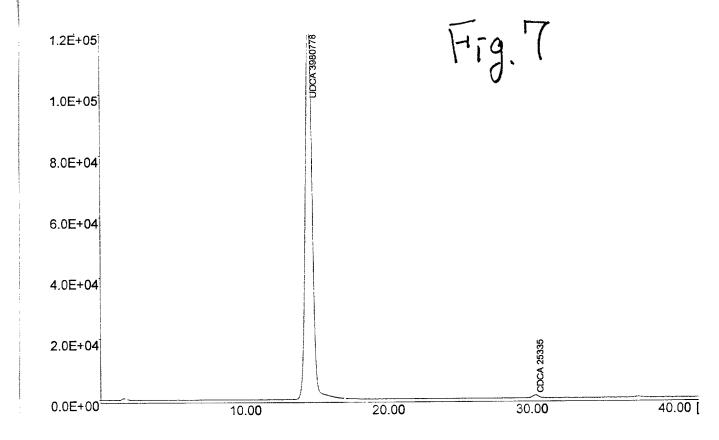


72hrs, after H. pylori treated with UDCA & bismuth citrate pictured by Transmission Electron Microscope

Fig.6: NMR data for UDCA in the liquid formulation dosage form: this data shows that this UDCA is absolutely free UDCA



HPLC for UDCA in the liquid formulation dosage form.



```
File name: USG0726001.CH1
```

Info :
GG25STAR250UD5---DW EXT

Vial # = 1 Rack # = 1

Injection Date :26-Jul-2000 16:48:10
Curr. Date : 30-Jan-2001 17:39:30

User : PRIME
Group : DATA

Acquisition Time :43.85 [min]

Control Method:

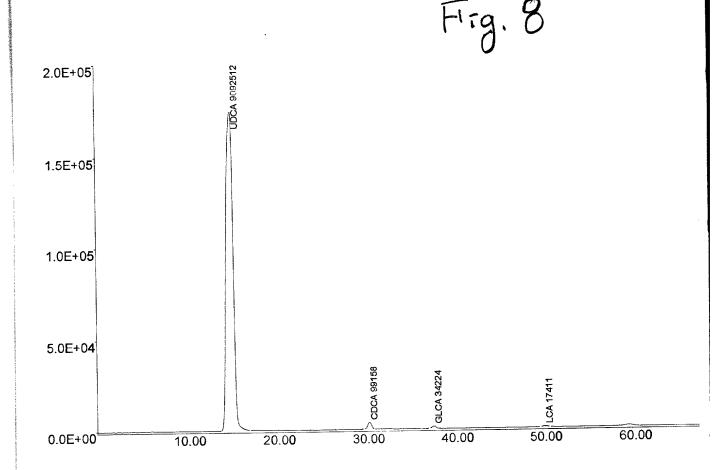
Code of system chromatographic : SYSTEM_1

Name RT Area[.Sec] %Area

1 UDCA 14.7423980777.50 99.4 2 CDCA 30.483 25335.25 0.6

Total Area of Peak = 4006112.75 [.Sec] Injection Volume = 10.00 ul

HPLC for standard UDCA



```
File name : UDCA724003.CH1
```

Info:

UDCA 500mg/100ml in MeOH

Vial # = 3 Rack # = 1

Injection Date :24-Jul-2000 17:20:10 Curr. Date : 30-Jan-2001 17:56:14

User : PRIME Group : DATA

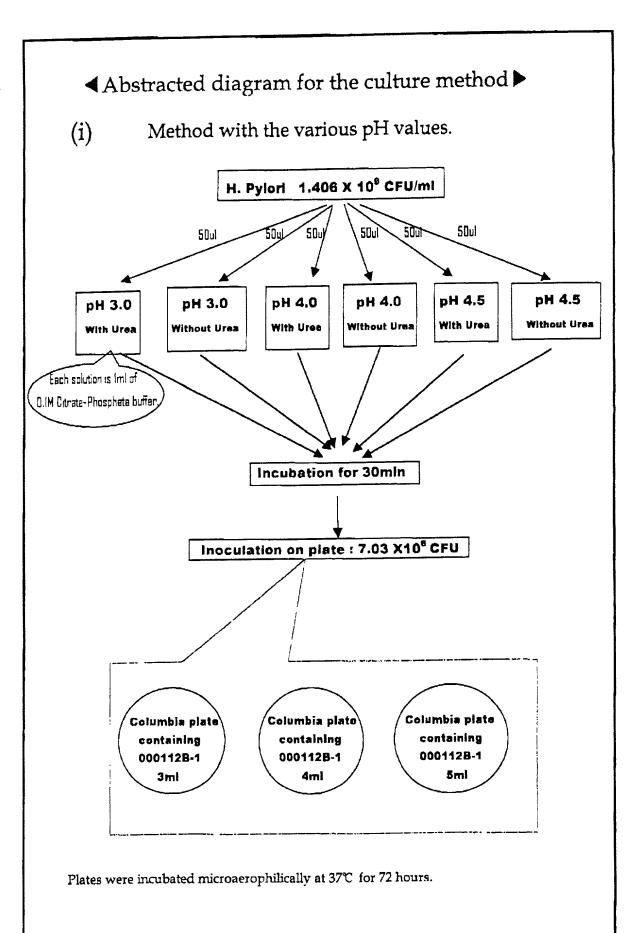
Acquisition Time :70.00 [min]

Control Method:

Code of system chromatographic: SYSTEM_1

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%Area
           RT Area[.Sec]
    Name
            15.1679092512.25
                               98.4
\ _1 UDCA
                                1.1
            30.442 99157.50
   2 CDCA
                     34224.00
                                0.4
            37.675
   3 GLCA
                     17410.75
                                0.2
            50.167
   4 LCA
```

Total Area of Peak = 9243304.50 [.Sec] Injection Volume = 10.00 ul



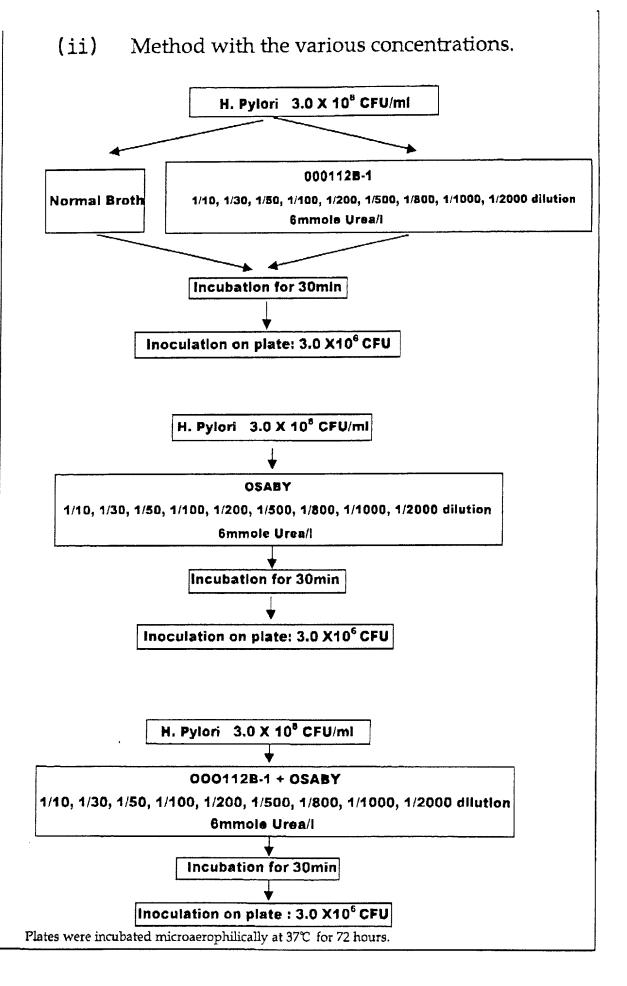


Figure 10

(iii) Method with the various concentrations + various incubation time

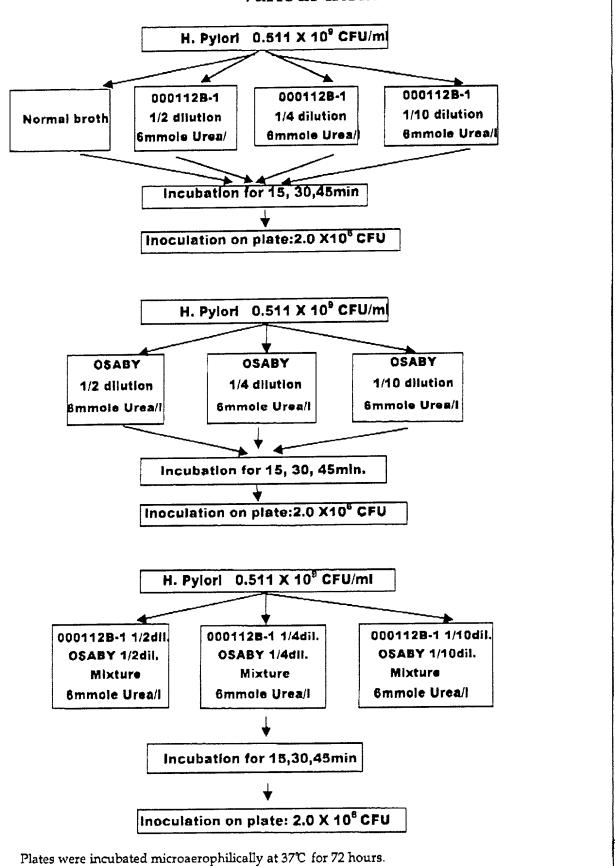


Figure 11

J-7